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LUFH070PWO

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Patent Claims

1. An arrangement for connecting a cellular phone located in an aircraft, land vehicle, sea- or spacecraft to a stationary mobile radio network (8) 10 which exhibits the following:

- at a stationary position:

15 a) a device for transmitting/receiving IP data to/from a corresponding device of the vehicle,

b) a device (6) for converting the IP data into mobile radio data and conversely,

20 c) a device (7) for transmitting/receiving the mobile radio data to/from the stationary mobile radio network;

characterized in that it also exhibits

25 - on board the vehicle:

d) a device (4) for transmitting/receiving IP data to/from a ground station,

30 e) at least one mobile radio base station,

f) a device (2) for converting the mobile radio data into the IP protocol and conversely.

35 2. The arrangement as claimed in claim 1, characterized in that the mobile radio base station (1) forms a mobile radio pico cell on board the vehicle.

3. The arrangement as claimed in claim 1 or 2, characterized in that the connection between the device b) and the device c) is established via the intranet of the vehicle.

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4. The arrangement as claimed in one of claims 1 to 3, characterized in that the device b) has an IP call manager (3).

10 5. The arrangement as claimed in one of claims 1 to 4, characterized in that the device c) is constructed for transmitting/receiving via one or more switching stations.

15 6. The arrangement as claimed in claim 5, characterized in that the switching stations comprise satellites.

20 7. The arrangement as claimed in one of claims 1 to 6, characterized in that the device d) is constructed for transmitting/receiving via one or more switching stations.

25 8. The arrangement as claimed in claim 7, characterized in that the switching stations comprise satellites.

30 9. The arrangement as claimed in one of claims 1 to 8, characterized in that the connection between the device d) and the device e) is established via the Internet.

35 10. The arrangement as claimed in one of claims 1 to 9, characterized in that the device e) has an IP call manager (5).

11. The arrangement as claimed in one of claims 1 to 10, characterized in that the device f) transmits/receives the mobile radio data wirelessly or

wire-connected to/from the stationary mobile radio network (8).

12. The arrangement as claimed in one of claims 1 to
5 11, characterized in that it has a number of devices e)
and f) which are arranged spatially spaced apart in the
area of different stationary mobile radio networks (8).

13. A method for connecting a cellular phone located
10 in an aircraft, land vehicle, sea- or spacecraft to a
stationary mobile radio network (8), comprising the
following steps:

- 15 aa) logging-in of the cellular phone at a local
mobile radio cell which is formed by a mobile
radio base station (1) arranged on board the
vehicle;
- 20 bb) converting the mobile radio data into the IP
protocol and conversely;
- cc) transmitting/receiving the IP data to/from a
ground station;
- 25 ee) converting the IP data into mobile radio data
and conversely;
- ff) transmitting/receiving the mobile radio data
to/from the stationary mobile radio network.